FUJITSU

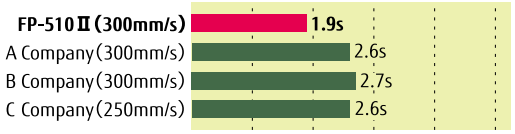
FUJITSU THERMAL PRINTER
FP-510Ⅱ

Fujitsu Thermal Printer, FP-510Ⅱ, a Multi-Function printer, delivering further improved high throughput and extensive print functions for POS, Ticket, KIOSK and Label printing.

●High speed printing – further reduction in waiting time

- Clear and high speed printing at 300mm/sec
- Higher throughput ability, less waiting time
  The original optimum design of Driver and Firmware achieves fast printout of the first page.

Comparison of throughput with other companies.
(Time from the start of data transfer to the completion of print)



Print condition: Windows XP, USB interface, 150mm Receipt length with our test pattern

●High reliability mechanism – long and stable operation

- Head life 150km
- Cutter life 2 million cuts (Receipt paper)
- MCBF 70million lines

●Front Paper Ejection – User friendly paper handling

Compared to top paper ejection, front paper ejection enables smoother paper handling. Paper removal is faster, and it is suitable for continuous ticket and label printing.

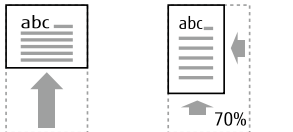
●16 Gray Scale function – produces vibrant images

16 Gray scale function outputs vibrant and clear images even with monochrome printing. High resolution image printing capability supports your branding strategy to print product images on coupons and receipt advertisement (available only with OPOS driver).

●Reduced printing – lower operation cost

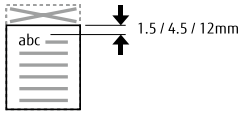
Reduced print function for Windows driver and Top Margin reduction function lowers paper usage. Operating cost and environmental impact can be reduced.

■Reduce printing



- 1/4 reduced vertically
- 1/2 reduced vertically
- 80 width paper → convert to 58mm

■Top Margin selectable 1.5 / 4.5 / 12mm



** remove receipt each time after printing in case of 1.5mm or 4.5mm margin setting

shaping tomorrow with you

FUJITSU FP-510Ⅱ Specifications

Printing Technology			Direct Line Thermal Method				
Print Resolution			8 dot/mm (0.125mm/dot) 203dpi				
Printing Speed			Monochrome: Maximum 300mm/s(80lps) Two color: Maximum 115mm/s(30lps)				
Paper Feed-out Direction			Front feed out				
Cutter Method			Partial-cut cutter (Standard) Full-cut cutter, Programmable Partial-cut and Full-cut cutter (Factory option)				
Auto Cutter Position			12mm(Standard), Programmable 4.5mm or 1.5mm distance between cutter and top of form				
Paper	Paper width		83mm, 80mm, 60mm, 58mm,				
	Outer Diameter of Roll Paper		Up to φ102mm (Paper thickness: 75~90μm) Up to φ90mm (Paper thickness: 90~150μm)				
	Paper Thickness		75μm(0.075mm) - 150μm(0.150mm)				
Maximum Print Width	58mm width paper		48mm (384dots) or 52.5mm (420dots)				
	60mm width paper		54.5mm (436dots)				
	80mm width paper		64mm (512dots) or 72mm (576dots)				
	83mm width paper		80mm (640dots)				
Font size and Column				203dpi (Normal mode)		180dpi (Extended mode)	
			Font A (Column)	Font B (Column)	Font C (Column)	Font A (Column)	Font B (Column)
	Paper width 58mm	Body Face	12x24 (32 or 35)	10x24 (38 or 42) 9x24 (42 or 46)	8x16 (48 or 52)	12x24 (32 or 35)	10x24 (38 or 42) 9x24 (42 or 46)
		Letter Face	11x22 (32 or 35)	9x17 (38 or 42) 9x17 (42 or 46)	8x13 (48 or 52)	12x24 (32 or 35)	9x22 (38 or 42) 9x22 (42 or 46)
	Paper width 60mm	Body Face	12x24 (36)	10x24(42),9x24(48)	8x16(54)	12x24(36)	10x24(43), 9x24(48)
		Letter Face	11x22 (36)	9x17(42),9x22(48)	8x13(54)	12x24(36)	9x22(43), 9x22(48)
	Paper width 80mm	Body Face	12x24 (42 or 48)	10x24 (51 or 57) 9x24 (56 or 64)	8x16 (64 or 72)	12x24 (42 or 48)	10x24 (51 or 57) 9x24 (56 or 64)
		Letter Face	11x22 (42 or 48)	9x17 (51 or 57) 9x17 (56 or 64)	8x13 (64 or 72)	12x24 (42 or 48)	9x22 (51 or 57) 9x22 (56 or 64)
	Paper width 83mm	Body Face	12x24(53)	10x24(64),9x24(71)	8x16(80)	12x24 (53)	10x24 (64), 9x24 (71)
		Letter Face	11x22(53)	9x17(64),9x22(71)	8x13(80)	12x24 (53)	9x22(64), 9x22(71)
Character Sets		1byte	ANK(95 char.), International Character(48 char.), Enlarged Graphics(128 char. x 20 pages), Download Character(95 char.),				
		2bytes	JIS 1 & 2 Kanji(6879 char.) JISX0208-1990, User-Defined character(94char.), Special Characters(845 char.)				
Barcode	Barcode		UPC-A, UPC-E, EAN13, EAN8, CODE39, ITF, CODABAR(NW-7), CODE93, CODE128				
	Two dimensional code		PDF417, DataMatrix, QR code				
Gray scale function			16scales (OPOS Driver only)				
Receive Buffer			Max. 4KB				
Logo Store Memory			3Mbits (Max. 384KB)				
Paper Near End & Paper End			Available				
Reflective (Black Mark) paper sensor			Factory option				
Internal Buzzer			One buzzer (Standard)				
Interface	Dual (RS232C+USB)		RS232C Serial (D-SUB 25pins) + USB(2.0 Full-speed, Type-B x 1port)				
	Powered USB		USB Full speed (FCI 8pins)				
	LAN		Wired, 10BASE-T/100BASE-TX (RJ-45 x 1port)				
Software Interface			ESC/POS emulation				
Drawer Interface			1 Drawer Controllable				
Software	Printer Driver	Windows	Windows driver	Windows Server® 2008 R2, Windows® 7, Windows Server® 2008,			
			OPOS driver (Ver.1.13)	Windows Vista®, Windows Server® 2003, Windows® XP, Windows® 2000			
			JavaPOS driver (Ver.1.10)	Windows Embedded for Point of Service (WEPOS)			
		Linux	JavaPOS driver (Ver.1.10)	Linux SuSE9.3			
	Printer Utility		Software to set the printer's setup items				
	LAN Utility		Quick Setup PR-PortManager (Popup Status Monitor) Admin Manager (Printer Status Monitor, System Status Monitor, IP Address Setup)				

RELIABILITY	MCBF (Mean-cycle-between-failure)	70million Lines *1
	Print Head	150km (Monochrome), 75km (Two color) *1
	Cutter Life	2 million times of partial cut (Recommended Normal paper use) *1

Power Requirements		DC Input: +24VDC±10% AC Input: 100 - 240V, 50/60Hz, Single Phase
Power Consumption		During standby : 4.5w/0.2A Average during operating : 44w/1.5A
Operating condition	Temperature	Operation guarantee: 0 °C to 40°C Print quality guarantee: 5 °C to 35°C
	Humidity	10% ~ 95%RH (without condensation, Highest wet bulb temperature: 29°C or less)
Storage condition	Temperature	-20°C to 60°C
	Humidity	5% ~ 95%RH (without condensation)
ESD resistance		Direct application Contact discharge: 0~8kV *2 Direct application Air discharge: 0~15kV *2 Indirect discharge: 0~15kV *2
RoHS and FUJITSU Environment Assessment		Standard
Dimensions		128(W)x207(D)x145(H)mm
Weight (without the packing box)		Normal Model: 1.9kg
Cover Color		Black & White

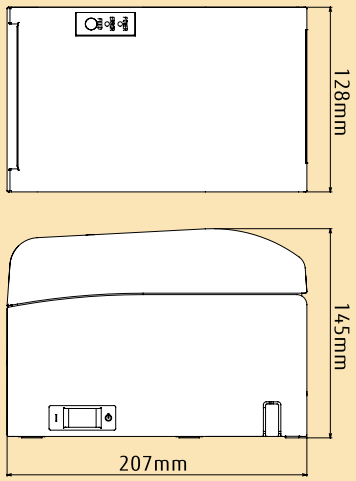
*1 Operation condition is under 500 transactions/day(1transaction=25LF + 1cut), 340days/year, print duty less than 9%, and the life of Head or Cutter with using specified paper by our company. If unspecified paper is used, the life of printer might be shortened than expected. Also, it might cause trouble for the printer.
*2 Based on FUJITSU measurement and quality standards.

All specifications are subject to change without notices.

Features

- High speed printing max.300mm/s, One touch cover open, Drop-in method for paper roll loading
- 16 gray scale function
- Reduced printing
- 180dpi emulation size font (Extended font)
- Two color printing
- Compact design, Small footprint
- Various paper width support max.Φ102, 83mm
- Standard auto-cutter
- Standard Buzzer
- PDF417,DataMatrix, barcodes
- High reliability
  - ·MCBF: 70 million lines
  - ·Head life: 150km
  - ·Cutter life: 2 million cuts
- Front paper ejection
- Splash-proof IEC 60529 IPX2
- RoHS and FUJITSU Super Green product

Dimensions



Green Policy Innovation | SUPER Green Product
This product has the top-level environmental factor in the comparison with our previous product or product in market.

Super green product is the product which complies with Fujitsu group original severe environmental standard FP-510Ⅱ passes our own severe environmental standard, and it is called "Super Green Product". The use of Recyclable material, Material Label attachment and Downsizing supports the environment.

JMI-0046

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